dacor®
The Life of the Kitchen.®

Installation Instructions

Distinctive® Series Cooktop

Models DCT305, DCT365

Part No. 106927 Rev. K

Table of Contents

Important Safety Instructions 1
Important Information About Safety Instructions 1
General Safety Precautions 2
Installation Specifications 3
Product Dimensions 3
Electrical Requirements 4
Gas Supply Requirements 4
Cabinet and Countertop Layout 5
Installation Instructions 7
Verify Package Contents 7
Installing the Cooktop 7
Connecting the Gas Line 7
Installing the Burner Components 8
Verifying Proper Operation 9
Installation Checklist 10
Wiring Diagram 11

Before You Begin...

Important:

- **Installer:** In the interest of safety and to minimize problems, read these installation instructions completely and carefully before you begin the installation process. Leave these installation instructions with the customer.
- **Customer:** Keep these installation instructions for future reference and the local electrical inspector's use.

NOTE: Dacor® is not responsible for service required to correct a faulty installation.

Customer Service Information

If You Need Help...

If you have questions or problems with installation, contact your Dacor dealer or the Dacor Customer Service Team. For repairs to Dacor appliances under warranty call the Dacor Distinctive Service line. Whenever you call, have the model and serial number of the appliance ready. The model and serial number are printed on the product data label.

Dacor Customer Service

Phone: (800) 793-0093 ex. 2813 (U.S.A. and Canada)
Monday — Friday 6:00 A.M. to 5:00 P.M. Pacific Time

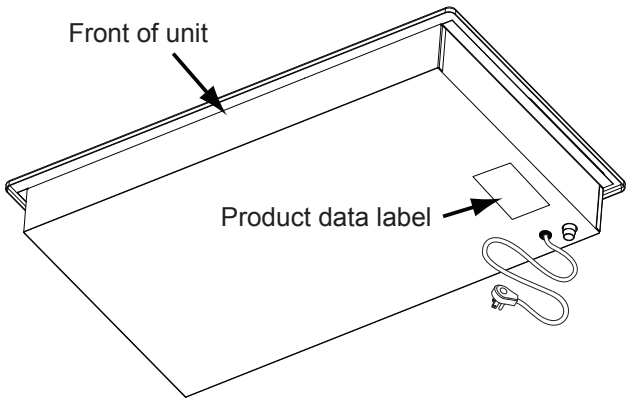
Web site: www.dacor.com

Dacor Distinctive Service (repairs under warranty only)

Phone: (800) 793-0093 ex. 2822 (U.S.A. and Canada)
Monday — Friday 6:00 A.M. to 4:00 P.M. Pacific Time

Product Data Label

- The product data label contains the model and serial number information and the electrical and gas supply requirements.
- It is attached to the chassis on the bottom of the unit.



All specifications are subject to change without notice. Dacor assumes no liability for changes to specifications.

© 2011 Dacor, all rights reserved.

Important Safety Instructions

Important Information About Safety Instructions

- The ***Important Safety Instructions*** and warnings in these instructions are not meant to cover all possible problems and conditions that can occur. Use common sense and caution when installing, maintaining or operating this or any other appliance.
- Always contact the Dacor Customer Service Team about problems and conditions that you don't understand. See ***Customer Service Information***.

Safety Symbols and Labels

⚠ DANGER

Immediate hazards that **WILL** result in severe personal injury or death.

⚠ WARNING

Hazards or unsafe practices that **COULD** result in severe personal injury or death.

⚠ CAUTION

Hazards or unsafe practices that **COULD** result in minor personal injury or property damage.

⚠ DANGER

IMPORTANT: If you smell gas:

- Do not use or light any appliance.
- Do not touch any electrical switch or use any electrical devices, including the telephone, in your building.
- From a neighbor's phone, immediately call the gas supplier. Follow the gas supplier's instructions.
- If you cannot contact the gas supplier, call the fire department.

⚠ DANGER

IMPORTANT: Do not store or use combustible, flammable or explosive vapors and liquids (such as gasoline) on or in the vicinity of this or any other appliance. Also keep items that could explode, such as aerosol cans, away from the cooktop. Do not store flammable or explosive materials in adjacent cabinets or areas (including above and below the cooktop).

⚠ WARNING

TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE:

a. SMOTHER FLAMES with a close-fitting lid, cookie sheet or metal tray, then turn off the burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.

b. NEVER PICK UP A FLAMING PAN - you may be burned.

c. DO NOT USE WATER, including wet dish cloths or towels - a violent steam explosion may result.

d. Use a fire extinguisher ONLY if:

- ◊ You have a Class ABC extinguisher, and you already know how to operate it.
- ◊ The fire is small and contained in the area where it started.
- ◊ The fire department is being called.
- ◊ You can fight the fire with your back to an exit.

⚠ WARNING

WARNING – NEVER use this appliance as a space heater to heat or warm the room. Doing so may result in carbon monoxide poisoning and overheating of the appliance.

⚠ WARNING

WARNING – NEVER cover any slots, holes or passages on the cooktop and cooktop chassis. Doing so blocks air flow through the cooktop and may cause carbon monoxide poisoning. Aluminum foil linings may also trap heat, causing a fire hazard. Keep all slots, holes and passages clear of grease and grime.

CALIFORNIA PROPOSITION 65 WARNING

The burning of gas cooking fuel generates some by-products that are on the list of substances which are known by the State of California to cause cancer or reproductive harm. California law requires businesses to warn customers of potential exposure to such substances. To minimize exposure to these substances, always operate this unit according to the use and care manual, ensuring you provide good ventilation when cooking with gas.

READ AND SAVE THESE INSTRUCTIONS

Important Safety Instructions

General Safety Precautions

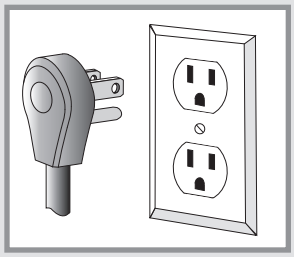
To reduce the risk of fire, electric shock, serious injury or death when using this appliance, follow basic safety precautions, including the following:

⚠ WARNING

- Read the accompanying use and care manual completely before operating this appliance.
- Keep packaging materials away from children. Plastic sheets and bags can cause suffocation.
- If you receive a damaged product, immediately contact your dealer or builder. Do not install or use a damaged appliance.
- This cooktop must be properly installed and grounded by a qualified installer according to these installation instructions prior to use. The installer should show the customer the location of the gas shut off valve and the power cord so that they know where and how to turn off the gas supply and disconnect power to the cooktop.
- Do not use this appliance in combination with a surface (countertop) ventilation system. Dacor strongly recommends the installation of a range hood in conjunction with this appliance.
- Do not install, repair or replace any part of the cooktop unless specifically recommended in the literature accompanying it. A qualified service technician should perform all other service.
- Before servicing or installing this cooktop, make sure that the gas supply is turned off at the gas supply valve and that the power plug is disconnected from the electrical outlet.
- Disconnect the power plug from the electrical outlet before cleaning. Clean this appliance only in the manner specified in the use and care manual.
- Only use the cooktop for cooking tasks expected of a home appliance as outlined in the literature accompanying it. This cooktop is not intended for commercial or laboratory use.
- DO NOT TOUCH THE SURFACES OF THE COOKTOP DURING OR IMMEDIATELY AFTER USE.
- Do not operate this appliance if the power cord is damaged.
- Turn the knobs to the OFF position prior to removing them from the valve stems.
- To avoid a fire hazard, do not hang flammable or heat sensitive objects over the cooktop.
- Do not climb on any part of the appliance.

⚠ WARNING

- Do not leave children alone or unattended in the area around the cooktop. Do not allow children to play with the controls or touch other parts of the cooktop. Do not store items of interest to children on top of or above the cooktop. Children could be burned or injured while climbing on the appliance.
- Clean the cooktop thoroughly before operating it for the first time. Make sure that all the cooktop parts are dry before lighting a burner.
- Keep flammable items, such as paper, cardboard, plastic and cloth away from the burners and other hot surfaces. Do not place such items on the cooktop. Do not allow pot holders to touch hot surfaces or gas burners.
- Do not wear loose or hanging apparel while using the cooktop. Do not allow clothing to come into contact with the cooktop and surrounding areas during and immediately after use.
- Do not use towels or bulky cloth as pot holders.
- Do not use the cooktop to heat sealed containers. The container and contents may explode, causing personal injury.
- If the cooktop is near a window, do not use long curtains as window treatment. The curtains could blow over the cooktop and create a fire hazard.
- Non-stick coatings, when heated, can be harmful to birds. Remove birds to a separate, well-ventilated room when operating the cooktop.



IMPORTANT - This appliance is equipped with a three-prong grounding plug for your protection against possible electric shock hazards. Plug it only into a dedicated, grounded three-prong electrical outlet. It is the responsibility of the customer to make sure the proper type of outlet is installed. **Do not under any circumstances:**

- Cut or remove the third (ground) prong from the power cord.
- Use an adapter plug.
- Use an extension cord.
- Use a power cord that is frayed or damaged.
- Connect to an electrical outlet with a ground fault interrupter (GFI).

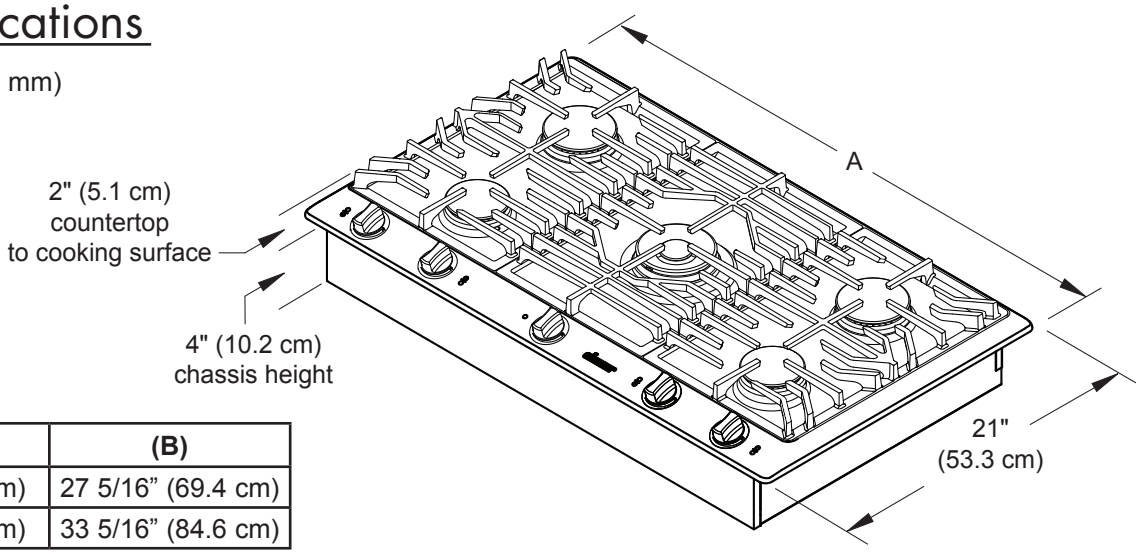
Installation Specifications

⚠ WARNING

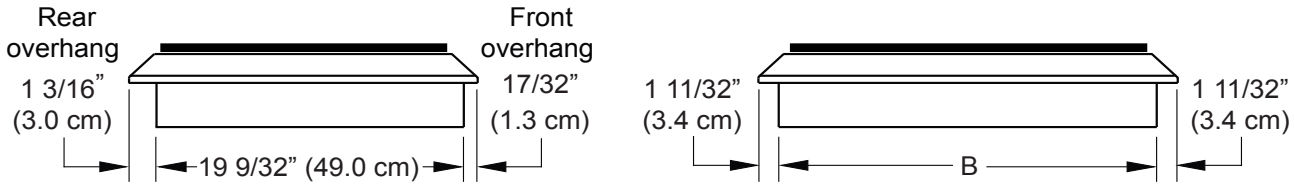
Observe all governing codes and ordinances during planning and installation. Contact your local building department for further information.

Product Specifications

All tolerances ±1/16” (±1.6 mm) unless otherwise noted.



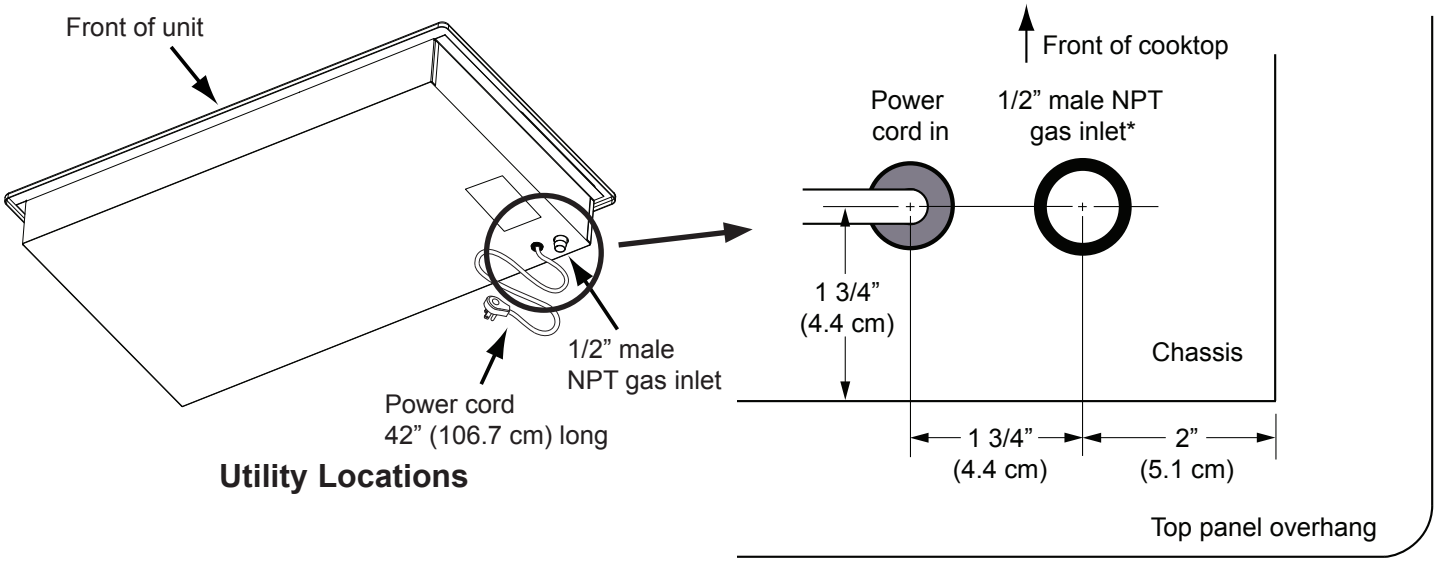
Model	(A)	(B)
DCT305	30” (76.2 cm)	27 5/16” (69.4 cm)
DCT365	36” (91.4 cm)	33 5/16” (84.6 cm)



Side View

Front View

Product Dimensions



Utility Locations

*Gas inlet protrudes 1” (2.5 cm) from bottom

Utility Dimensions

Installation Specifications

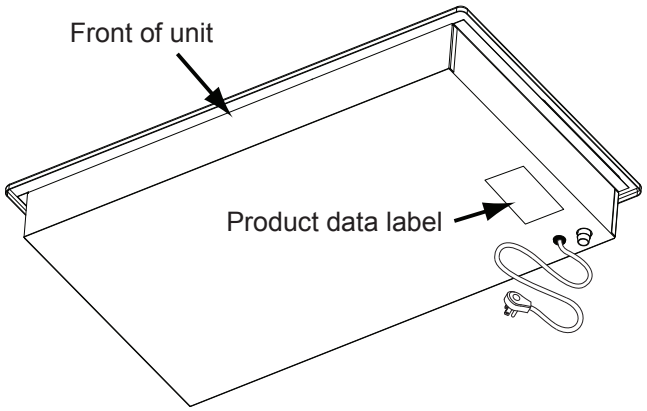
Electrical Requirements

⚠ WARNING

To prevent an electric shock hazard, the power supply must meet the specifications stated below. It is the owner's responsibility to make sure that the electrical service meets electrical requirements and that the electrical outlet has been properly installed by a licensed electrician.

- The cooktop is supplied with a factory installed, 42 inch long, power cord with a three-prong, grounding electrical plug. It is connected to the chassis at the bottom right rear corner (see ***Chassis Bottom Diagram*** below). It must be connected to a dedicated, grounded three-prong electrical outlet installed by a licensed electrician.
- The electrical installation, including minimum supply wire size and grounding, must be done in accordance with National Electric Code ANSI/NFPA 70 and local codes and ordinances. A copy of this standard may be obtained from:

  National Fire Protection Association
  1 Batterymarch Park
  Quincy, MA 02269-9101
- The correct voltage, frequency and amperage must be supplied to the electrical outlet according to the product data label located on the bottom of the chassis. See the ***Gas and Electrical Requirements*** table on this page for reference.
- Be certain to locate the electrical outlet so that the power cord may be easily disconnected if the unit requires service.



Chassis Bottom Diagram

Gas Supply Requirements

- Be certain that the cooktop being installed is correct for the gas service being provided (natural gas or LP gas). Also, if operating the cooktop at an altitude above 4000 ft. (1219 m) make sure it is equipped for high altitude operation.
- Units equipped for LP operation have "LP" in the model number listed on the product data label. See the ***Chassis Bottom Diagram*** for label location.
- Units equipped for high altitude operation have an "H" at the end of the model number listed on the product data label.
- Check your local building codes for the proper method of installation. In the absence of local codes, this appliance should be installed in accordance with the National Fuel Gas Code ANSI Z223.1/NFPA 54.
- An external manual shut-off valve must be installed between the gas inlet and the cooktop for the purpose of turning on or shutting off gas to the appliance.
- The cooktop comes from the factory with a regulator in the shipping carton. Use only the regulator provided. The regulator must be installed in the gas line that runs from the cooktop gas inlet to the gas shut off valve.
- The regulator inlet (female) accommodates a 3/4" gas line. It can also accommodate a 1/2" gas line using the included reducer. The inlet to the cooktop itself is equipped with a 1/2" male NPT fitting.

The cooktop gas connection is located on the bottom of the cooktop in the back right corner as you face the front of the unit. See the ***Chassis Bottom Diagram*** on this page.

	DCT305_NG DCT365_NG	**DCT305_LP DCT365_LP**
Gas type	Natural gas	LP gas
Manifold pressure	5" Water column	10" Water column
Min. gas supply pressure *	6" Water column	11" Water column
Max. gas supply pressure	1/2 psi	1/2 psi
Total connected load	0.25 Amp. (30 Watts)	0.25 Amp. (30 Watts)
Circuit requirement	120 Vac, 60 Hz, 15 Amp.	120 Vac, 60 Hz, 15 Amp.

Gas and Electrical Requirements**

* The gas supply pressure for testing the regulator setting shall be at least 1 inch water column (249 Pa) above the specified manifold pressure.

** The electrical and gas data on this page is for reference only. If the above data does not agree with the product data label, use the data on the product data label.

Installation Specifications

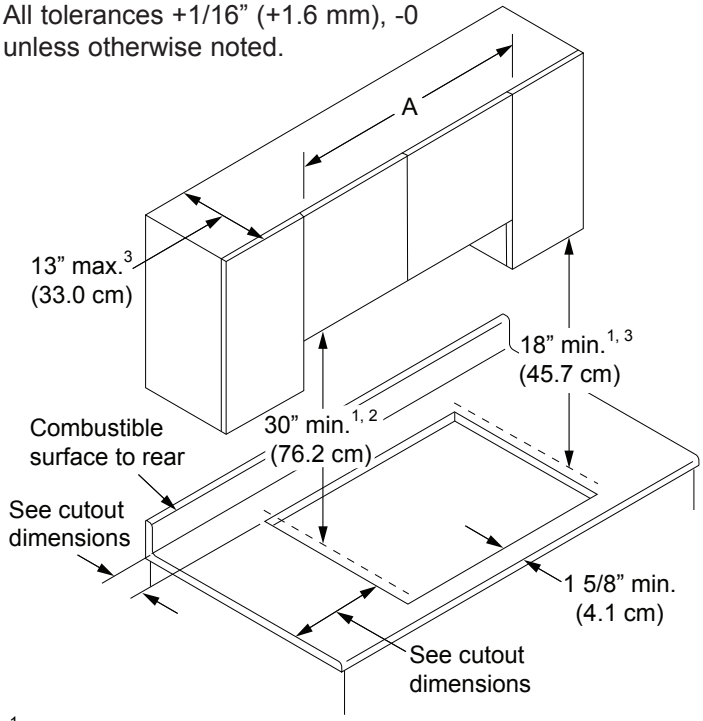
Cabinet and Countertop Layout

⚠ WARNING

- Failure to meet or exceed the maximum and minimum dimensions/clearances stated in these instructions may result in a fire hazard.
- Follow the countertop manufacturer's instructions regarding the minimum corner radius, use of heat reflective tape, reinforcement of corners, etc.

- Carefully check the location where the cooktop will be installed. For best performance, the cooktop should be placed away from drafts that may be caused by doors, windows and heating and air conditioning outlets.
- This appliance is to be used in conjunction with a suitable vent hood or approved Dacor downdraft vent system.

All tolerances +1/16" (+1.6 mm), -0 unless otherwise noted.



[1] Distance to combustible surfaces measured from cooking surface (top of cooktop grate).

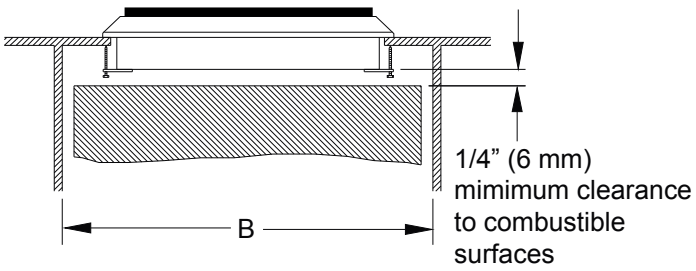
[2] If installing with an overhead range hood, check the hood specifications for minimum required clearances.

[3] This specification does not apply for cabinets located greater than a horizontal distance of 5 1/2" (14.0 cm) from edge of cooktop. Allow 6 7/8" (17.5 cm) from cutout edge.

Minimum Required Clearances Around the Cooktop

Model	(A) Minimum	(A) Recommended
DCT305	30" (76.2 cm)	36" (91.4 cm)
DCT365	36" (91.4 cm)	42" (106.7 cm)

- Allow a minimum 1/4" (6 mm) clearance between the bottom of the cooktop chassis and all combustible surfaces, including the upper edge of a drawer installed below the cooktop.



* Allows for clearance between hold down brackets

Model	(B) Minimum
DCT305	29 1/4" (74.3 cm)
DCT365	35 1/4" (89.5 cm)

Under Cabinet Clearances

- The gas supply piping, gas shut-off valve and the electrical outlet must be located so that they do not interfere with the cooktop when it is installed. If installing another appliance in the cabinet below, allow for the routing of gas and electrical service behind it.

The installation must allow for the following:

- Access to the gas shut-off valve and regulator when the unit is installed.
- Access to the electrical outlet when the cooktop is in place. The 42" (106.7 cm) power cord must be able to reach the electrical outlet.
- Access to the underside of the cooktop for service and inspection purposes.
- Clearance inside the cabinet to allow for proper hold down bracket installation.

To allow access to the utilities and cooktop bottom, a fixed shelf should not be installed below the cooktop. See the following pages for countertop cutout dimensions.

Downdraft Vent Compatibility

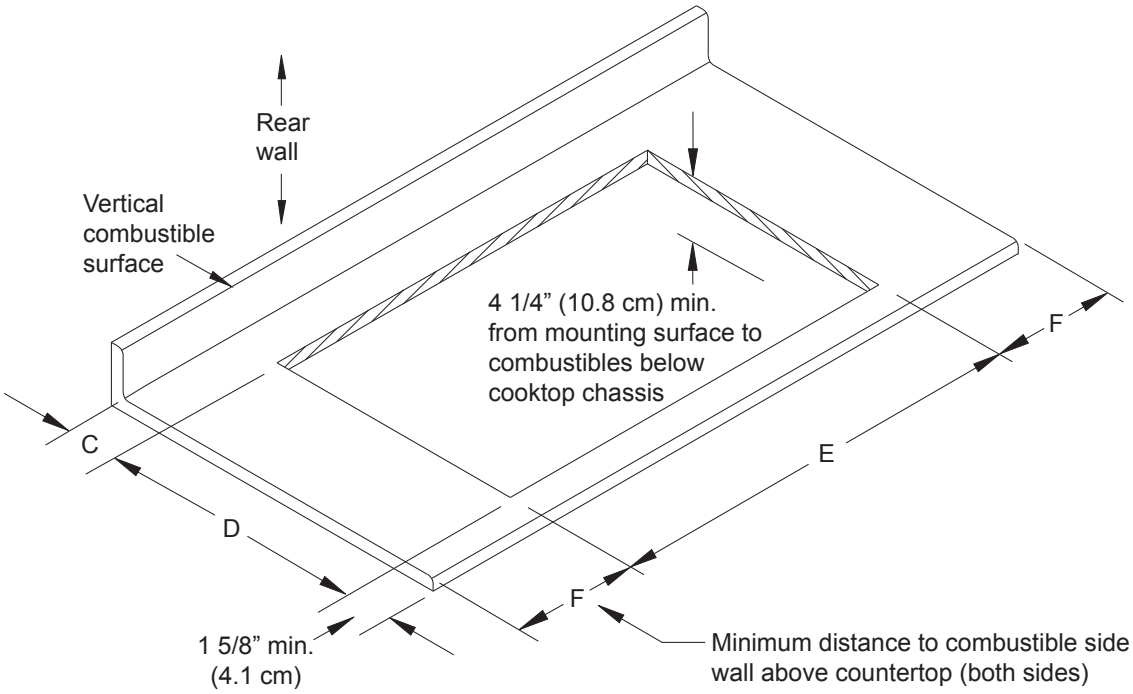
If installing the cooktop with a downdraft vent, install only the Dacor downdraft vent models specified below. Installation of any other downdraft vent model may cause improper operation.

Cooktop Model	Approved Downdraft Vent
DCT305	ERV3015
DCT365	ERV3615

Installation Specifications

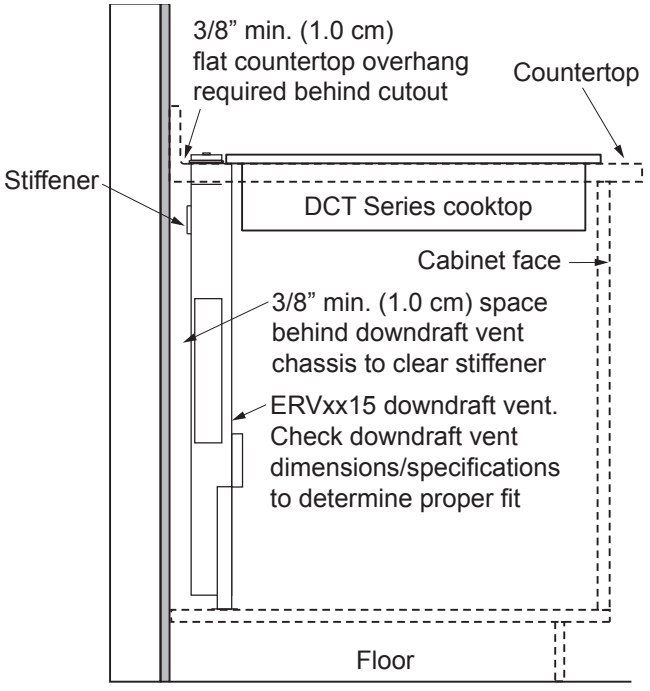
Cutout Dimensions

All tolerances +1/16” -0 (+1.6 mm, 0) unless otherwise noted.



Countertop Cutout Dimensions

Installation Type	(C) Minimum	(D)	(E)	(F) Minimum
DCT305 with no downdraft vent	3 1/4” (8.3 cm)	19 5/8” (49.9 cm)	27 5/8” (70.2 cm)	6 7/8” (17.5 cm)
DCT305 with ERV3015 downdraft vent	3/8” (1.0 cm)	22 3/4” (57.8 cm)	27 5/8” (70.2 cm)	
DCT365 with no downdraft vent	3 1/4” (8.3 cm)	19 5/8” (49.9 cm)	33 5/8” (85.4 cm)	
DCT365 with ERV3615 downdraft vent	3/8” (1.0 cm)	22 3/4” (57.8 cm)	33 5/8” (85.4 cm)	


3/8” min. (1.0 cm) flat countertop overhang required behind cutout
Countertop
Stiffener
DCT Series cooktop
Cabinet face
3/8” min. (1.0 cm) space behind downdraft vent chassis to clear stiffener
ERVxx15 downdraft vent. Check downdraft vent dimensions/specifications to determine proper fit
Floor

Side View - DCT Series Cooktop with Approved Downdraft Vent

Installation Instructions

Verify Package Contents

- Hold down brackets (2)
- Grates (3)
- Burner sets (5)
- Gas pressure regulator with 3/4” to 1/2” reducer
- Stainless steel cleaner

Installing the Cooktop

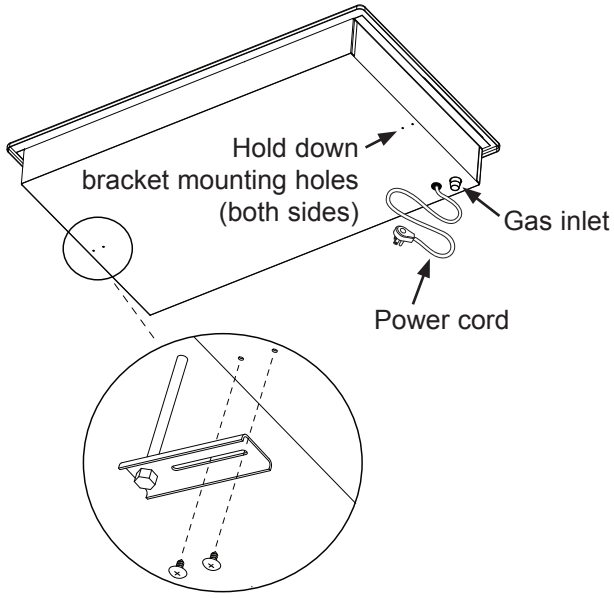
⚠ WARNING

- Verify that the power supply meets the specifications on page 4 before proceeding.
- To prevent damage to the gas pressure regulator, install it only after the cooktop is mounted in its permanent position.

⚠ CAUTION

- Do not over-tighten the hold down bolts. Over-tightening the hold down bolts may result in improper operation of the dual gas burners.
- Do not use a hardening compound or caulk to permanently seal the cooktop into place. The cooktop must be readily removable if service is required. Removal of sealant to service the unit will be performed at the customer’s expense.

1. If the cooktop will be used with a downdraft vent, install the vent according to it’s installation instructions first.
2. Lower the cooktop into the cutout. Slide it forward as far as possible and center it side to side.
3. Secure the cooktop to the countertop using the two (2) provided hold-down brackets as shown.



Hold Down Bracket Installation

Connecting the Gas Line

⚠ WARNING

- Verify that the gas supply meets specifications before connection. See page 4.
- Do not install the cooktop without also installing the included gas regulator. Do not use the cooktop without the regulator installed.
- Ensure that the arrow on the regulator points in the direction of the gas flow, towards the cooktop.
- Do not apply excessive pressure when tightening gas connections and fittings.
- Do not use Teflon tape, pipe thread sealant or any other sealing compound on the seat of flared gas line connections.
- Test the gas lines for leaks as instructed before use. Do not use a flame to check for leaks.
- The maximum gas supply pressure to the regulator must never exceed 1/2 psi (3.5 kPa).
- The cooktop and shut-off valve must be disconnected from the gas supply piping system during any pressure testing exceeding 1/2 psi (3.5 kPa).
- The cooktop must be isolated from the gas supply piping system by closing the shut-off valve to the cooktop during any gas supply piping system pressure testing equal to or less than 1/2 psi (3.5 kPa).
- For LP gas installations, the LP gas tank must have its own high-pressure regulator in addition to the pressure regulator supplied with the cooktop.

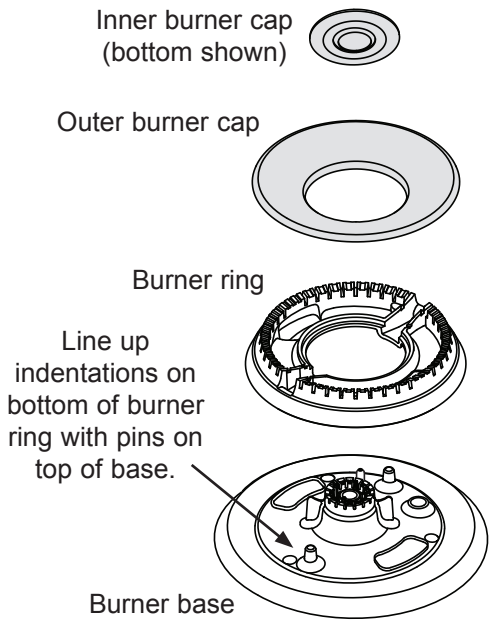
1. Attach the gas pressure regulator (included with the cooktop) to the cooktop pipe nipple inlet. For tight installations, the regulator may be installed upstream from the pipe nipple, anywhere between the shut-off valve and the cooktop. For best performance, minimize gas pressure loss by attaching the regulator as close as possible to the cooktop gas inlet.
2. Complete connection of the gas supply to the cooktop by installing a minimum 1/2” flexible gas line (not included) between the pressure regulator and the shut-off valve.
3. Check for gas leaks:
   - ◊ Turn all cooktop control valves to the **OFF** position.
   - ◊ Turn on the gas supply valve and check all lines and connections for leaks using a soap and water solution or a gas leak detector.
   - ◊ Turn the gas supply off.

Installing the Burner Components

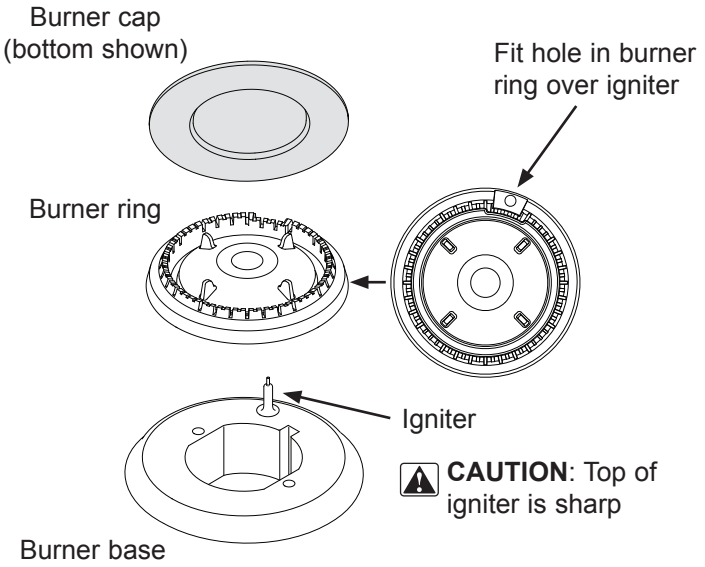
⚠ WARNING

- Never attempt to operate the cooktop with any of the burner parts removed.
- Do not attempt to adjust the burner air mixture settings. All adjustments are preset at the factory.

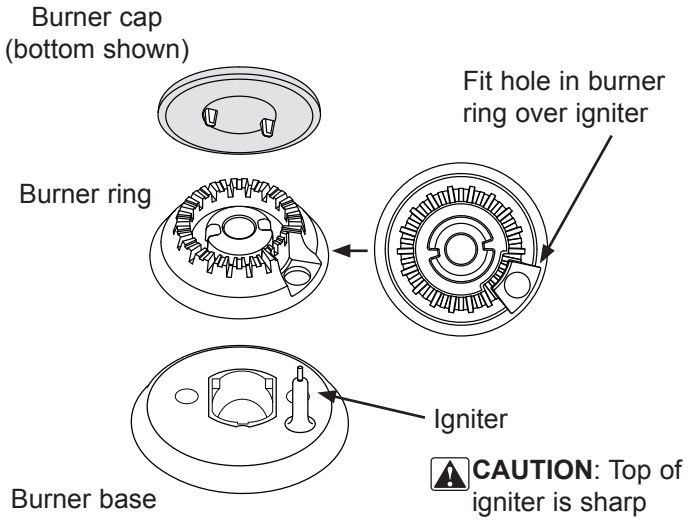
1. Remove the burner rings, burner caps and grates from their shipping packages.
2. Assemble the burners as shown. Match the burner parts to the correct size and type of burner. When installing the burner components, make sure they are centered. Twist each piece back and forth slightly until it drops completely into place. The burners will not operate properly unless all of the burner pieces are properly seated. On model DCT305, the left rear burner cap has tabs on the bottom that fit into the slots on the top of the burner ring.



SimmerSear™ Burner Assembly (center of cooktop)



Standard Burner Assembly

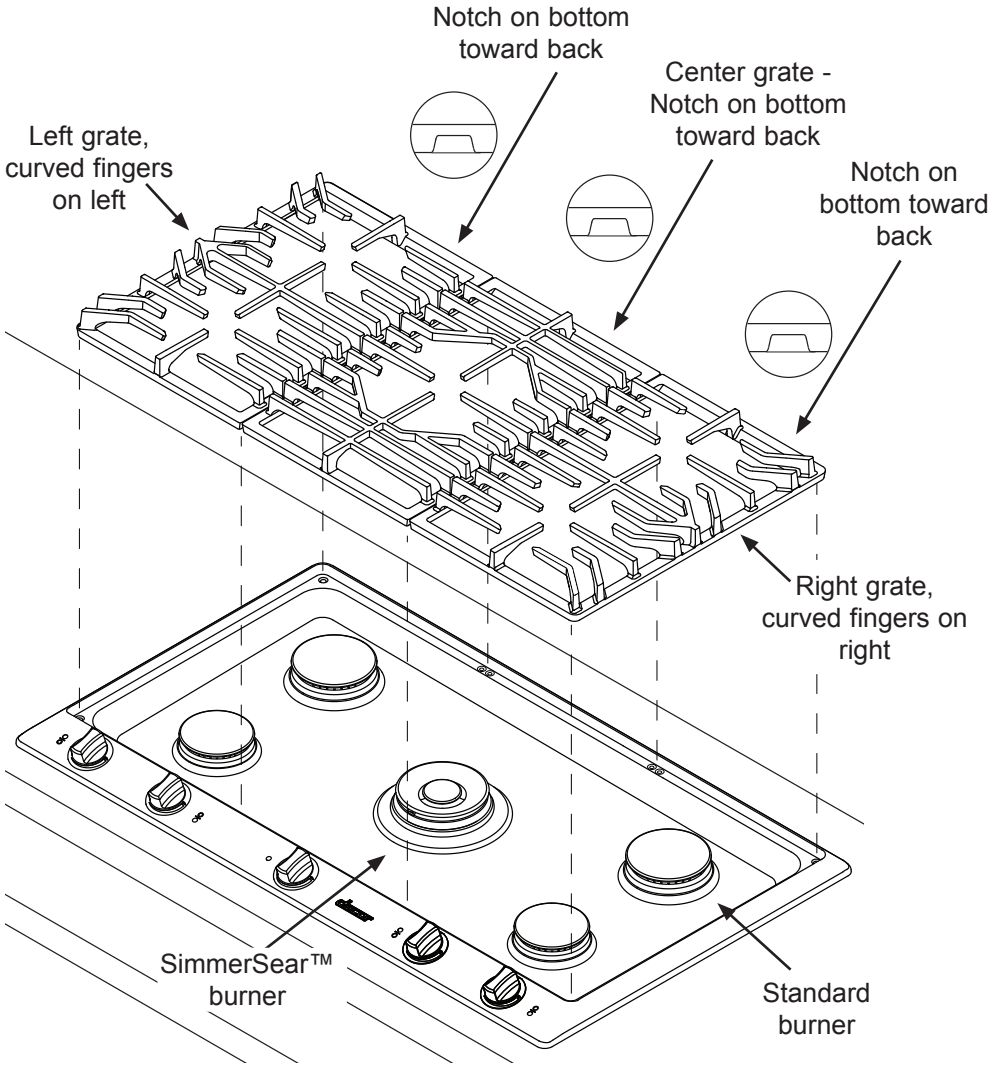


Left Rear Standard Burner Assembly - DCT305

Installation Instructions

IMPORTANT: Install the grates as instructed below for longest life. When installed properly, the openings in the grates are centered over the burners.

3. Locate the notch on the bottom of each grate.
4. Use the notch on the bottom of each grate to determine location and orientation. See diagram below. The notch on the bottom of each grate goes towards the back of the cooktop. The notches on the left and right grates go toward the outside.
5. Gently lower the legs of each grate into the corresponding dimples on the cooktop.


Notch on bottom toward back
Center grate - Notch on bottom toward back
Left grate, curved fingers on left
Notch on bottom toward back
Right grate, curved fingers on right
SimmerSear™ burner
Standard burner

NOTE: Burner and grate size vary with model

Verifying Proper Operation

⚠ WARNING

- Make sure that power to the electrical outlet is turned off at the circuit breaker panel or fuse box and that the gas is turned off at the gas supply valve before proceeding.
- The cooktop must be properly grounded at all times when electrical power is applied.

Prior to operating the cooktop, read the accompanying use and care manual carefully.

1. If the control knobs are not already in place, install the SimmerSear knob (see knob diagrams, bottom right) on the center valve stem. The remaining knobs install on the valve stems to the right and left of the center knob.
2. Make sure all the cooktop burner controls are in the **OFF** position.
3. Connect the power cord to the electrical outlet.
4. Turn on power to the electrical outlet at the circuit breaker panel or fuse box.
5. Push down and turn the left front burner control knob slowly counterclockwise to the **HIGH** position. The corresponding burner indicator light should come on. Verify that the burner igniter sparks, then return the knob to the **OFF** position. Repeat for all of the remaining control knobs.

HIGH position

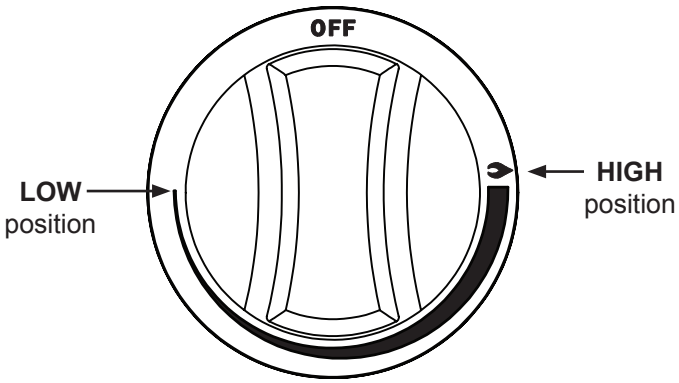
6. Turn on the gas supply valve.
7. Perform the following ignition test for all of the burners, one at a time:
   - Push down and turn the control knob slowly counterclockwise to the **HIGH** position. All of the burner igniters will spark. It may take up to 4 seconds for the burner to ignite, at which time the igniters will stop sparking. If ignition does not occur within 4 seconds, turn the knob to the off position. Wait for at least 5 minutes to allow any gas to dissipate, then repeat the test.
   - Once the burner lights, rotate the control knob counterclockwise from **HIGH** to **LOW** to adjust the flame height progressively. On the SimmerSear burner, only the center of the burner should be lit when the knob is in the low position.
   - When the unit is installed properly, the flame will be steady. It will also have a sharp, blue inner cone proportional to the burner size. The flame will be reduced by the Smart Flame™ feature under the grate fingers to increase grate life.

Normal Flame Appearance

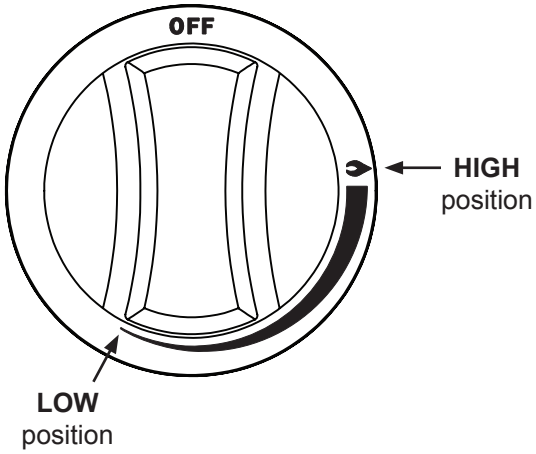
NOTE: If the cooktop does not operate properly, follow these troubleshooting steps:

- Verify that power and gas are supplied to the cooktop.
- Check to make sure that the power plug is connected to the electrical outlet and that power is turned on at the circuit breaker panel or fuse box.
- Check to make sure that the burner parts are properly seated.
- If the burner continues to spark after ignition without stopping, have a licensed electrician check the electrical outlet for proper grounding or reversed polarity.
- Repeat the above burner ignition test.
- If the appliance still does not work, contact Dacor Distinctive Service at (877) 337-3226. Do not attempt to repair the appliance yourself. If you need service, be sure to have the model and serial numbers available when you call. See inside cover for location.

Dacor is not responsible for the cost of correcting problems caused by a faulty installation.



SimmerSear Control Knob (Center)



Standard Burner Control Knob

Installation Checklist

⚠ WARNING

- To ensure a safe and proper installation, the following checklist should be completed by the installer to ensure that no part of the installation has been overlooked.
- Proper installation is the responsibility of the homeowner. The importance of proper installation of your Dacor cooktop cannot be overemphasized.

☐ Is the electrical outlet for the cooktop grounded and located according to these instructions and in accordance with all applicable electrical codes? See page 4.

☐ Is the gas service for the cooktop located and installed according to these instructions and in accordance with all applicable codes? See page 4.

☐ Has the gas supply inlet pressure been measured to ensure that it does not exceed the maximums stated in these instructions? See page 4.

☐ Is the cooktop secured using the provided hold-down brackets? See page 7.

☐ Is the cooktop connected to the gas supply according to these instructions and in accordance with all applicable codes? Did the installer check the gas supply for leaks? See page 7.

☐ Are the burners and grates properly installed according to these instructions? See page 8.

☐ Has proper operation been verified?

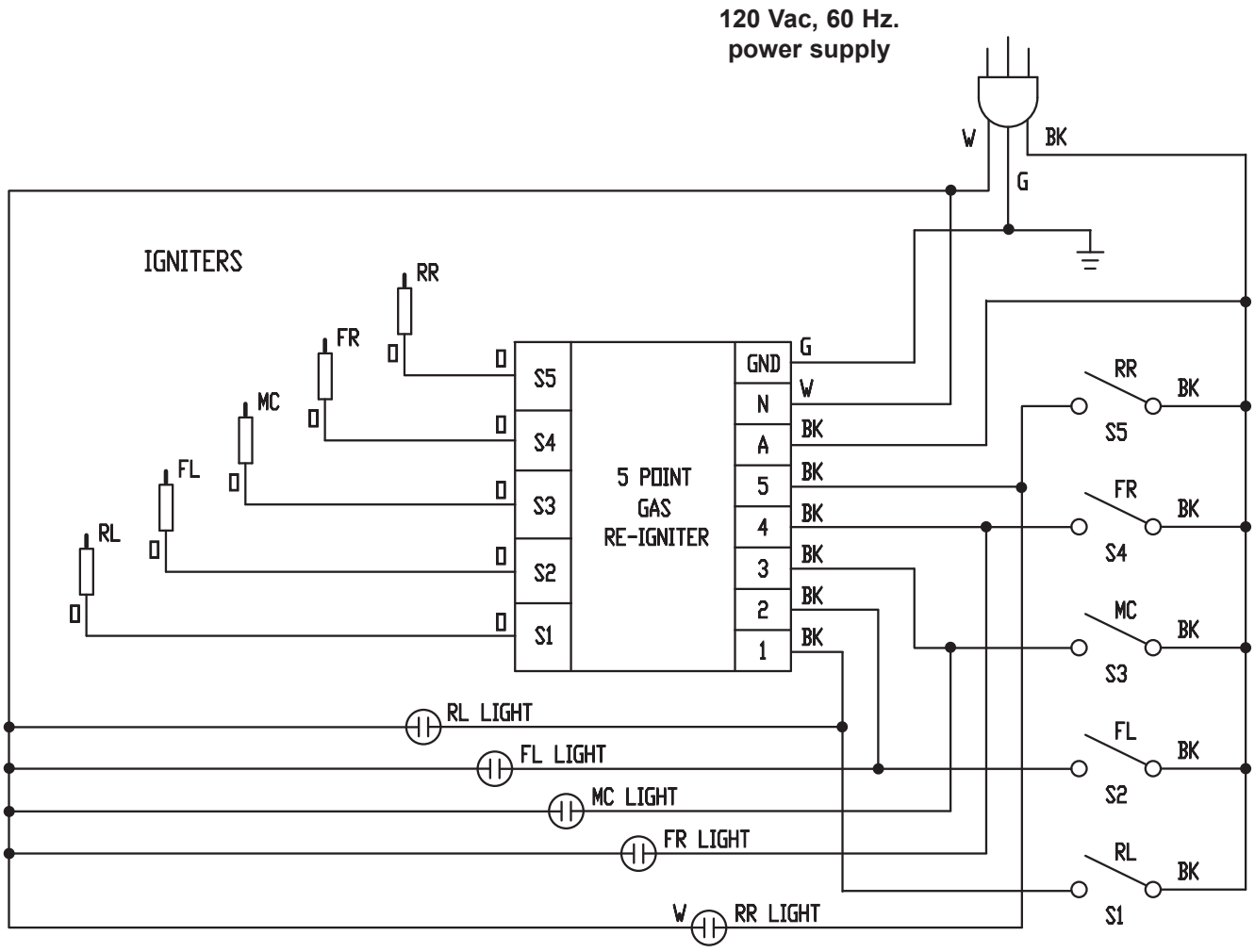
☐ Has the warranty been activated on-line or the warranty card filled out completely and mailed?

Wiring Diagram

⚠ WARNING

Label all wires prior to dis-connection when servicing controls. Wiring errors can cause improper and dangerous operation.

Verify proper operation after servicing



Wiring Diagram - DCT305/DCT365

dacor
The Life of the Kitchen.®